

CALCOMP**CALCOMP**

MODEL 225 DISK DRIVE

The CalComp 225 is a high density, high speed, random access, mass storage unit consisting of two separate and independent disk drives. Each drive utilizes an 11-high removable disk pack for the storage and retrieval of data. Over 116 million 8-bit-bytes of data can be stored on the 20 recording surfaces of each pack, allowing a total unit capacity in excess of 232 million bytes.

Incorporating 200 tracks-per-inch and 4400 bits-per-inch technologies, the 225 accesses any one of 406 cylinder positions with a track-to-track access time of not more than 10 ms, and a maximum full stroke access time of 55 ms. Data is transferred at 625,000 bytes per second with a rotational speed of 2400 RPM. A single spindle version of the 225 (Model 224) is also available from CalComp.

FEATURES

HIGH DENSITY PACKING TECHNIQUES provide four times the data storage of a 2314-type disk drive.

TWO INDEPENDENT SPINDLES IN A SINGLE CABINET greatly reduce floor space requirements.

ELECTROMAGNETIC ACTUATOR combined with **OPTICAL CYLINDER TRANSDUCER** provides superior head positioning accuracy and reliability, and assures pack interchangeability.

PROGRAMMABLE ELECTRONIC SECTOR GENERATOR allows the user to select his own sector count, avoiding the requirement for non-standard disk packs.

DRIVE GENERATED WRITE CLOCK tracks the disk speed, thereby eliminating rpm impact on data packing density.

CIRCUIT MONITORING OF READ, WRITE AND ERASE FUNCTIONS assures high data integrity.

TEMPERATURE COMPENSATION SYSTEM insures that read/write heads are positioned directly over the data track despite ambient or pack temperature changes.

PROGRAM CONTROLLED HEAD POSITION OFFSET enhances recovery of marginal data.

DUAL ACCESS INTERFACE (optional) allows two controllers to access either disk drive permitting simultaneous data transfer.

SELF CONTAINED VFO provides separation of recorded data in the drive and greatly simplifies controller read/write design requirements.

INTERNAL DIFFERENCE CALCULATOR provides absolute addressing capability, further simplifying controller design.

FUNCTIONALLY ORGANIZED PRINTED CIRCUIT BOARDS facilitate maintenance and afford the shortest possible MTTR.

SPINDLE DRAWERS can be extended from both the front and rear of the unit providing operator convenience and ease of maintenance.

U.L. LISTED AND CSA CERTIFIED.



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225 SPECIFICATIONS AND CHARACTERISTICS

CAPACITY

Per Pack – 116 million 8-bit bytes (125 million bytes unformatted)
Per Unit – 232 million 8-bit bytes (250 million bytes unformatted)

TRANSFER RATE

5 Megabits per second

ACCESS TIME

Track to Track – 10 msec. max. 405 cylinder seek – 55 ms
Latency Average – 12.5 ms, maximum – 25 ms

ROTATIONAL SPEED

2400 rpm

PACK START/STOP TIME

Start – 90 sec. to ready
Dynamic Braking – 20 sec. to stop

DISK PACK CHARACTERISTICS

Recording Surfaces – 20
Tracks per Surface – 406

DIMENSIONS

32" wide x 24.75" deep x 61" high

WEIGHT

850 pounds

POWER REQUIREMENTS

Input Voltage – 208 or 230 VAC
Line Frequency – 60 Hz ±0.5 Hz (50 Hz optional)
Operating Current – 4.3 amp rms/spindle
Starting Current – 20 amps/spindle for 7 seconds

HEAT DISSIPATION

4250 BTU per hour

OPERATING ENVIRONMENT

Temperature – 60°F to 90°F.
Relative Humidity – 10% to 80% (no condensation)



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